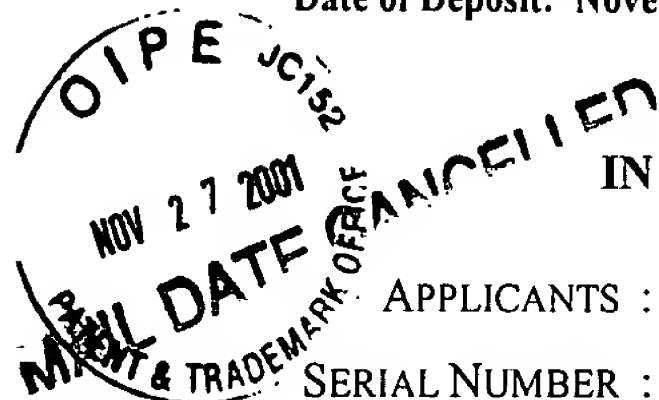


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Attorney Docket No.: 23239-504 NATL (Arch-4)



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Breaker et al.
SERIAL NUMBER : 09/830,905
FILING DATE : October 29, 1999
FOR : Multidomain Polynucleotide Molecular Sensors
EXAMINER : Not Yet Assigned
ART UNIT : Not Yet Assigned

BOX IDS

Assistant Commissioner for Patents
Washington, D.C. 20231



30623

PATENT TRADEMARK OFFICE

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (1 page), in duplicate;
2. Modified Form 1449/PTO (2 pages), in duplicate;
3. Copies of cited references A1-A12, B1 and C1-C43; and
4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any additional fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 23239-504 NATL (Arch-4). A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor R. Elrifi Reg. No. 48,593
Ivor R. Elrifi, Reg. No. 39,529
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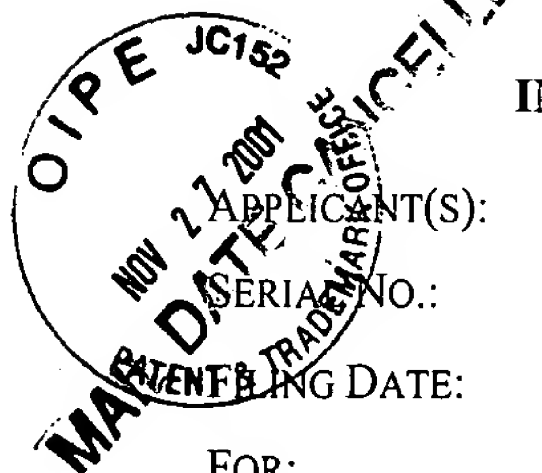
Dated: November 6, 2001

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Express Mail Label No.: EL831676067US
Date of Deposit: November 6, 2001

Attorney Docket No.: 23239-504 NATL (Arch-4)

#8 BP
12-4-01



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Assistant Commissioner for Patents
Washington, D.C. 20231



INFORMATION DISCLOSURE STATEMENT

Applicants hereby make of record the documents listed below and on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application, copies of which are submitted herewith. This Information Disclosure Statement is being filed before the first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is required as set forth in 37 C.F.R. § 1.97. A copy of each of the references is enclosed unless otherwise indicated on the attached Form PTO-1449 (modified). Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311 Reference No. 23239-504 NATL (Arch-4).

Respectfully submitted,

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PTO/SB (12-97)
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Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	09/830,905
	Filing Date	10/29/99
	First Named Inventor	Breaker
	Group Art Unit	Not Yet Assigned
	Examiner Name	Not Yet Assigned
	Attorney Docket Number	23239-504 NATL (Arch-4)

U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
	A1	US 5,190,931	03/02/93	Inouye			11/15/89
	A2	US 5,208,149	05/04/93	Inouye			04/10/92
	A3	US 5,272,065	12/21/93	Inouye et al.			06/21/90
	A4	US 5,474,911	12/12/95	Pontius			11/30/90
	A5	US 5,589,333	12/31/96	Bagasra et al.			04/11/94
	A6	US 5,637,459	06/10/97	Burke et al.			08/02/94
	A7	US 5,712,375	01/27/98	Jensen et al.			05/03/95
	A8	US 5,723,289	03/03/98	Eaton et al.			09/20/94
	A9	US 5,723,592	03/03/98	Eaton et al.			06/05/95
	A10	US 5,763,177	06/09/98	Gold et al.			09/16/94
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	A12	US 5,773,598	06/30/98	Burke et al.			06/05/95

FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	B1	WO 98/27104	Yale University	06/25/98	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1	Araki, M. et al. (1998). <i>Nuc. Acids Res.</i> 26: 3379-3384.
	C2	Breaker, R. and Joyce, G. (1994). <i>Trends in BioTech</i> 12: 268-275.
	C3	Breaker, R. (1997). <i>Chem. Rev.</i> 97: 371-390.
	C4	Burgstaller, P. and Famulok, M. (1994). <i>Angew. Chem. Int. Ed. Engl.</i> 33: 1084-1087.
	C5	Burgstaller, P. et al. (1997). <i>Nuc. Acids Res.</i> 25: 4018-4027.
	C6	Cane, D. et al. (1998). <i>Science</i> 282: 63-68.
	C7	Draper, D. (1996). <i>Trends in BioTech.</i> 21: 145-149.
	C8	Fedor, M. and Uhlenbeck, O. (1992). <i>Biochemistry</i> 31: 12042-12054.
	C9	Forster, A. and Symons, R. (1987). <i>Cell</i> 49: 211-220.
	C10	Gerstein, M. et al. (1994). <i>Biochemistry</i> 33: 6739-6749.

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C11	Gold, L. et al. (1995). <i>Annual Rev. of Biochem.</i> 64: 763-797.
	C12	Hellinga, H. and Marvin, J. (1998). <i>Trends in BioTech.</i> 16: 183-189.
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	C17	Lin, C. and Patel, D. (1996). <i>Nature Struct. Bio.</i> 3: 1046-1050.
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	C19	Long, D. and Uhlenbeck, O. (1994). <i>Proc. Natl. Acad. Sci. USA</i> 91: 6977-6981.
	C20	Marsden, A. et al. (1998). <i>Science</i> 279: 199-202.
	C21	McDaniel, R. et al. (1995). <i>Nature</i> 375: 549-554.
	C22	Osborne, S. and Ellington, A. (1997). <i>Chem. Rev.</i> 97: 349-370.
	C23	Patel, D. et al. (1997) <i>J. Mol. Bio.</i> 272: 645-664.
	C24	Porta, H. and Lizardi, P. (1995). <i>Bio/Technology</i> 13: 161-164.
	C25	Pyle, A-M. and Green, J. (1995). <i>Curr. Op. in Struct. Bio.</i> 5: 303-310.
	C26	Robertson, M. and Ellington, A. (1999). <i>Nature Biotechnology</i> 17: 62-66.
	C27	Ruffner, D. et al. (1990). <i>Biochemistry</i> 29: 10695-10702.
	C28	Sassanfar, M. and Szostak, J. (1993). <i>Nature</i> 364: 550-553.
	C29	Serra, M. and Turner, D. (1995). <i>Meth. In Enzymology</i> 259: 242-261.
	C30	Soukup, G. and Breaker, R. (1999). <i>Trends in BioTech.</i> 17: 469-476.
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	C32	Soukup, G. and Breaker, R. (1999). <i>Structure Fold. Des.</i> 7: 783-791.
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	C34	Tang, J. and Breaker, R. (1997). <i>Chemistry & Biology</i> 4: 453-459.
	C35	Tang, J. and Breaker, R. (1997). <i>RNA</i> 3: 914-925.
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	C38	Tyagi, S. and Kramer, F. (1996). <i>Nature Biotechnology</i> 14: 303-308.
	C39	Von Ahsen, U. (1998). <i>Chemistry & Biology</i> 5: R3-R6.
	C40	Werstuck, G. and Green, M. (1998). <i>Science</i> 282: 296-298.
	C41	Westhof, E. et al. (1996). <i>Folding & Design</i> 1: R78-R88.
	C42	Williams, K. and Bartel, D. (1996). <i>Nuc. Acids and Mol. Bio.</i> 10: 367-381.
	C43	Ye, X. et al. (1996). <i>Nature Struct. Bio.</i> 3: 1026-1033.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.